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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/726,345	12/01/2000	Johnny Dale Callahan	NC 82197	1880

22245 7590 07/14/2004

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EXAMINER

GARVEY, TARA L

ART UNIT PAPER NUMBER

1636

DATE MAILED: 07/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

84.

Office Action Summary**Application No.**

09/726,345

Applicant(s)

CALLAHAN ET AL.

Examiner

Tara L Garvey

Art Unit

1636

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 June 2004.
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 18 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 18 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) ☐ Notice of Informal Patent Application (PTO-152)
 6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

Claims 1-17 and 19-21 were cancelled. Election of Group VI (claim 18) was made **without** traverse in the reply filed on June 4, 2004.

Priority

Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 119(e) as follows: The reference to provisional application 60/168,184 is provided in the declaration and priority is given to the date 12/01/1999. The reference is not presented the specification. Please provide the claim to priority in the first sentence of the specification following the title as a separate paragraph.

Specification

The disclosure is objected to because of the following informalities: The specification contains extraneous writing. Please remove "(I believe most of the journals prefer to have tables and figures in the end of the manuscript after the text. I suggest try Clin. Diagn. Lab. Immunol. First.)" on page 12 and "(Did you do this part?)" is on page 15. Please remove the website www.premierbiosoft.com on page 7. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 18 is rejected under 35 U.S.C. 102(a) as being anticipated by Laue et al (Journal of Clinical Microbiology 1999, Volume 37(8), pages 2543-2547).

Claim 18 is drawn to a method of detecting a Dengue-1 virus infection by converting an RNA sample to cDNA by reverse transcription, amplification of a DNA target sequence using serotype-specific primers and a probe, and detection of the amplification product to verify the presence of Dengue-1 virus.

Laue et al teach extracting of RNA from samples containing Dengue-1,2,3 or 4 virus (p. 2544, paragraph 3), converting the RNA to cDNA by reverse transcription (p. 2544, paragraph 3), and performing RT-PCR using serotype-specific primers and a probe for Dengue-1,2,3 and 4 virus to detect the presence of the amplification product (p. 2543, last paragraph to p. 2544, paragraphs 1 and 2; p. 2544, paragraphs 6,7 and 8). Specifically, they teach the procedure known as TaqMan amplification which uses specific primers in combination with an internal probe that hybridizes to the region being amplified. The specific probe contains a quencher dye and a fluorescent dye that allow for detection of the amplified product for Dengue-1,2,3 or 4 virus (p. 2543, paragraph 2 and p. 2544, paragraphs 6,7 and 8). Thus, Laue et al teaches all that is recited in the instant claim.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tara L Garvey whose telephone number is (571) 272-2917. The examiner can normally be reached on Monday through Friday 9 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel can be reached on (571) 272-0781. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

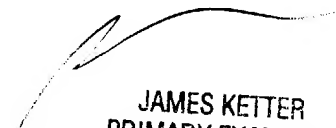
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of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Tara L Garvey
Examiner
Art Unit 1636

TLG



JAMES KETTER
PRIMARY EXAMINER